Precision 50 Mil Pitch, Dual In Line, Resistor Networks

TOMC-14 and TOMC-16 Series, Small Outline Molded

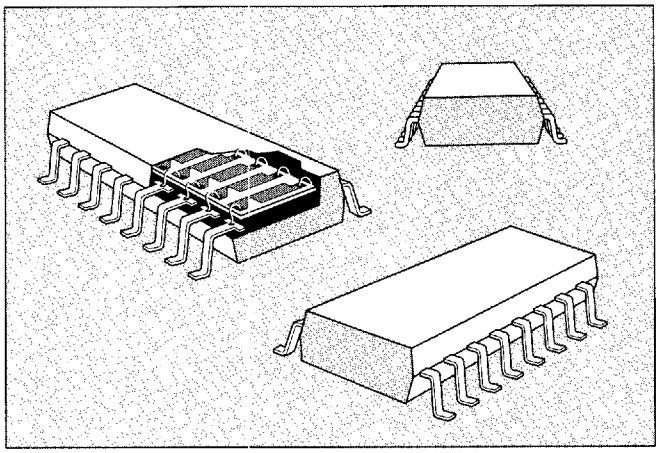
Models: TOMC-14 and TOMC-16

01 Schematic: 13 or 15 resistors with highest numbered lead common

03 Schematic: 7 or 8 isolated resistors

Features

- ▲ 0.090" (2.29 mm) maximum seated height
- ▲ Rugged, molded case construction
- ▲ Highly stable thin film
- ▲ Low temperature coefficient, ±25 ppm/°C (–55°C to +125°C)
- ▲ Reduces total assembly costs
- ▲ Wide resistance range
- ▲ Uniform performance characteristics



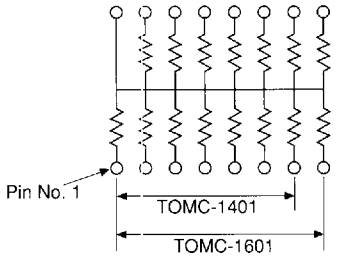
▼ Table 23 Electrical Specifications

Resistance Range	100 Ω to 100K Ω
Resistance Tolerance	±1%, 0.5%, 0.25%, 0.1%
Resistance Ratio Match	0.5%, 0.1%, 0.05%
Resistance Temperature Coefficient	±25 ppm/°C
Resistor Power Rating	01 = 0.05 watt max. at +25°C 03 = 0.100 watt max. at +25°C
Package Power Rating	14 pin or 14 lead = 0.65 watt 16 pin or 16 lead = 0.75 watt (maximum at +25°C)
TC Tracking	±5 ppm/°C (–55°C to +125°C) typical
Voltage Coefficient of Resistance	<5 ppm/volt typical
Max. Operating Voltage	100 volts
Operating Temp. Range	–55°C to +125°C
Storage Temp. Range	–55°C to +150°C

▼ Table 24 Physical Specifications

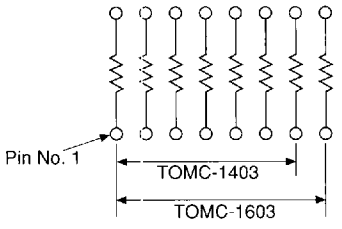
Marking	Model Number, Schematic Number, Value Code, Tolerance Code and Ohmtek Name
Marking Resistance to Solvents	Permanency testing per MIL-R-83401
Solderability	Per MIL-R-83401
Leads	Copper alloy, solderable
Body	Molded epoxy

▼ Figure 8 01 Circuit



The 01 circuit provides a choice of 13 or 15 nominally equal resistors, each connected between a common lead (14 or 16) and a discrete PC board pin.

▼ Figure 9 03 Circuit



The 03 circuit provides a choice of 7 or 8 nominally equal resistors with each resistor isolated from all others and wired directly across.

2160 Liberty Drive
Niagara Falls
New York 14304

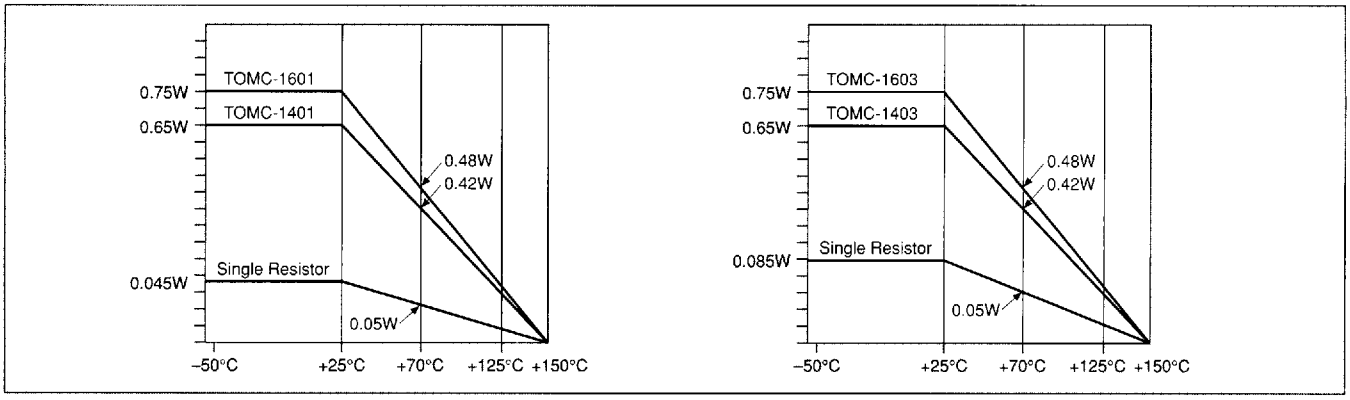
Phone
716-283-4025

FAX
716-283-5932

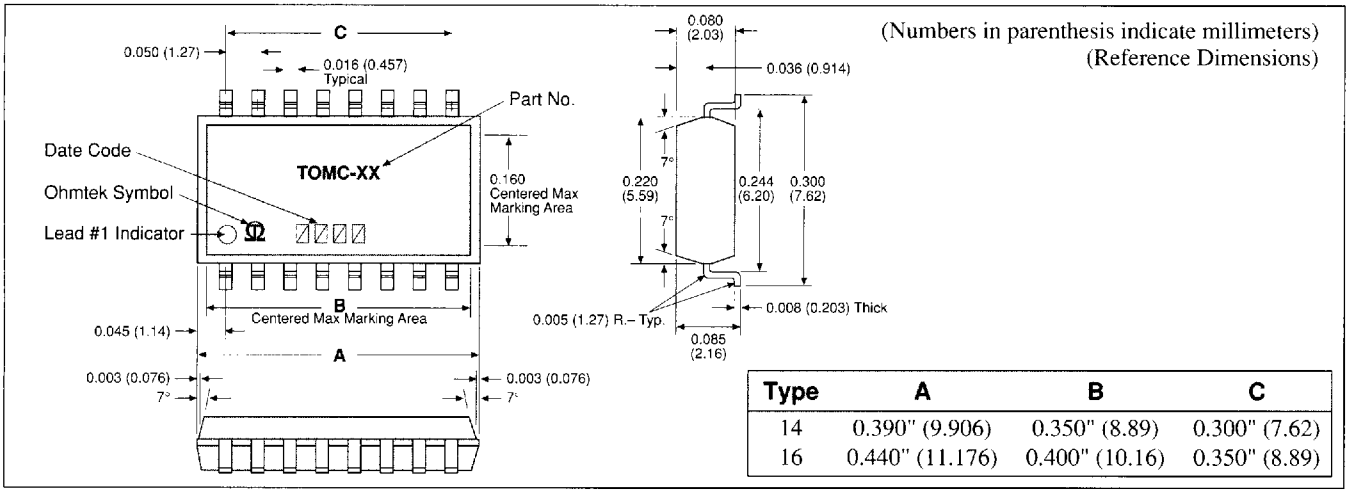
▼ Table 25 Environmental Characteristics

Thermal Shock	±0.25% maximum ΔR	**Moisture Resistance**	±0.20% maximum ΔR
Power Conditioning	±0.25% maximum ΔR	**Shock**	±0.25% maximum ΔR
Low Temperature Operation	±0.10% maximum ΔR	**Vibration**	±0.25% maximum ΔR
Short Time Overload	±0.10% maximum ΔR	**Life**	±0.10% maximum ΔR
Terminal Strength	±0.10% maximum ΔR	**Insulation Resistance**	10,000 Megohms (minimum)
Resistance to Soldering Heat	±0.10% maximum ΔR	**Dielectric Withstanding Voltage**	No evidence of arcing or damage (200 VRMS for 1 minute)

▼ Figure 10 Power Derating Curve



▼ Figure 11 Dimensional and Terminal Configurations



Type	A	B	C
14	0.390" (9.906)	0.350" (8.89)	0.300" (7.62)
16	0.440" (11.176)	0.400" (10.16)	0.350" (8.89)

▼ Table 26 Ordering Information

Series	Number of Leads	Schematic	Resistance Value	Tolerance & Ratio Tolerance
TOMC	14	01 = 13 or 15 nominally equal resistors, each connected between a common lead (14 or 16) and a discrete PC board pin.	First 3 digits are significant figures. The last digit specifies the number of zeros to follow.	* A = ±0.1%, ±0.05% ratio match B = ±0.1%, ±0.1% ratio match C = ±0.25%, ±0.1% ratio match D = ±0.5%, ±0.1% ratio match F = ±1.0%, ±0.5% ratio match
	16	03 = 7 or 8 nominally equal resistors with each resistor isolated from all others and wired directly across.	e.g. 1K = 1001 10K = 1002	* Tolerance available on 1K and up only.

Example: TOMC-1403-1001F is a small outline molded network of 7 nominally equal isolated resistors with 14 leads, a value of 1K Ω, and a tolerance of ±1.0%.

2160 Liberty Drive
Niagara Falls
New York 14304

Phone
716-283-4025

FAX
716-283-5932